

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP03/09060

## A. CLASSIFICATION OF SUBJECT MATTER

Int.C1<sup>7</sup> C07C35/44, A61K31/704, 31/56, A61P9/00, 25/00, A61P27/02,  
35/00, 43/00, A23L1/30, C07H15/256, C07J63/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.C1<sup>7</sup> C07C35/44, A61K31/704, 31/56, A61P9/00, 25/00, A61P27/02,  
35/00, 43/00, A23L1/30, C07H15/256, C07J63/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
CA (STN), REGISTRY (STN)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	SHASHI B.M., 'Triterpenoid Saponins from <i>Medicago Hispida</i> ', <i>Phytochemistry</i> , 1991, Vol.30, No.10, pages 3389 to 3393, compound 4, (p3390)	1,2,4 3,5-11
A	JP 9-100295 A (Toray Industries, Inc.), 15 April, 1997 (15.04.97), Claims; examples (Family: none)	1-11
A	JP 11-43440 A (The Kitasato Institute), 16 February, 1999 (16.02.99), Claims; examples (Family: none)	1-11

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier document but published on or after the international filing date  
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search  
08 October, 2003 (08.10.03)Date of mailing of the international search report  
28 October, 2003 (28.10.03)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

第V欄 新規性、進歩性又は産業上の利用可能性についての法第12条（PCT35条(2)）に定める見解、それを裏付ける文献及び説明

## 1. 見解

新規性 (N)	請求の範囲	3, 5-11	有 無
	請求の範囲	1, 2, 4	
進歩性 (I S)	請求の範囲	3, 5-11	有 無
	請求の範囲	1, 2, 4	
産業上の利用可能性 (I A)	請求の範囲	1-11	有 無
	請求の範囲		

## 2. 文献及び説明 (PCT規則70.7)

文献1 : SHASHI B. M., 'Triterpenoid Saponins from *Medicago Hispida*.', *Phytochemistry*, 1991, Vol. 30, No. 10, pp3389-3393,  
化合物4 (p3390)

## (1) 請求の範囲 1、2、4

請求の範囲 1、2、4 は、国際調査報告で引用した文献1により、新規性、進歩性を有しない。

上記文献1記載の化合物4は、請求の範囲1記載の式(I)に相当する化合物である。

## (2) 請求の範囲 3、5-11

請求の範囲 3、5-11 は、国際調査報告で引用した文献1に記載されており、新規性及び進歩性を有する。

特に、式(I)の化合物が神経成長因子産生増強剤として有用なことが記載されていない。